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### 1 [Rethinking computer science education from a test-first perspective](#)

 Stephen H. Edwards  
 October 2003 OOPSLA '03: Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

Publisher: ACM

 Full text available: [pdf\(280.11 KB\)](#) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Despite our best efforts and intentions as educators, student programmers continue to struggle in acquiring comprehension and analysis skills. Students believe that once a program runs on sample data, it is correct; most programming errors are reported ...

Keywords: CS1, extreme programming, laboratory-based teaching, pedagogy, test-driven development

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### 2 [A simple method & tool for web engineering](#)

 G. Griffiths, B. D. Hebbron, M. A. Lockyer, B. J. Oates  
 July 2002 SEKE '02: Proceedings of the 14th international conference on Software engineering and knowledge engineering

Publisher: ACM

 Full text available: [pdf\(170.99 KB\)](#) [Additional Information: full citation, abstract, references](#)

In this paper we propose a simple method for web engineering: The Simple Web Method (SWM, pronounced 'swim'). We also discuss tool support for Web Engineering and introduce our prototype WIPSE (Web Integrated Project Support Environment). Both are described ...

### 3 [Building a question answering test collection](#)

 Ellen M. Voorhees, Dawn M. Tice  
 July 2000 SIGIR '00: Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM

 Full text available: [pdf\(1.02 MB\)](#) [Additional Information: full citation, abstract, references, cited](#)

by, index terms

The TREC-8 Question Answering (QA) Track was the first large-scale evaluation of domain-independent question answering systems. In addition to fostering research on the QA task, the track was used to investigate whether the evaluation methodology used ...

#### 4 [Annotating and sketching on 3D web models](#)



Thomas Jung, Mark D. Gross, Ellen Yi-Luen Do  
January 2002 | UI '02: Proceedings of the 7th international conference on  
Intelligent user interfaces

Publisher: ACM

Full text available: [pdf \(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper reports on our progress and findings in building a Web annotation system for non-immersive 3D virtual environments. Over the last two years, we developed and tested two systems for collaborating designers to comment on virtual 3D models. Our ...

**Keywords:** 3D models, Java 3D, VRML, annotation, collaboration, gesture recognition, pen-based interface, sketch in 3D

#### 5 [RSVP Browser: Web Browsing on Small Screen Devices](#)

O. de Bruijn, R. Spence, M. Y. Chong  
January 2002 | Personal and Ubiquitous Computing, Volume 6 Issue 4  
Publisher: Springer-Verlag

Full text available: [pdf \(171.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper, we illustrate the use of space-time trade-offs for information presentation on small screens. We propose the use of Rapid Serial Visual Presentation (RSVP) to provide a rich set of navigational information for Web browsing. The principle ...

**Keywords:** Mobile Internet, Mobile communication, Navigation, Rapid serial visual presentation, Small screen devices, WAP, Web browsing

#### 6 [Cognitive walkthrough for the web](#)



Marilyn Hughes Blackmon, Peter G. Polson, Munee Kitajima, Clayton Lewis  
April 2002 | CHI '02: Proceedings of the SIGCHI conference on Human factors in  
computing systems: Changing our world, changing ourselves

Publisher: ACM

Full text available: [pdf \(446.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper proposes a transformation of the Cognitive Walkthrough (CW), a theory-based usability inspection method that has proven useful in designing applications that support use by exploration. The new Cognitive Walkthrough for the Web (CWW) is superior ...

**Keywords:** cognitive model, cognitive walkthrough, headings, information scent, link labels, web navigation, web usability

7 [Web design issues when searching for information in a small screen](#)

display

Loel Kim, Michael J. Albers

October 2001 SI GDOC '01: Proceedings of the 19th annual international conference on Computer documentation

Publisher: ACM

Full text available: [pdf\(213.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper, we report preliminary findings from an experimental study in which twenty-eight users answered questions by performing strategic information searches on web pages. Pages, which varied in length from 100 to 850 words, were displayed on ...

Keywords: PDA, display size, handheld device, personal digital assistant, short-term memory, small-screen interface, strategic information search, web design, web pages

8 [A web-based model of the system for development and delivering of on-line courses](#)

Georgi Tuparov, Daniela Dureva, Radoslav Bratanov, Michail Dimirov

June 2003 CompSysTech '03: Proceedings of the 4th international conference on Computer systems and technologies: e-Learning

Publisher: ACM

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the paper one model of Web-based system for development and delivering of on-line courses is proposed. The system architecture and functionality of the system are presented.

Keywords: eLearning, learning content management system

9 [Where now for development methodologies?](#)

David E. Avison, Guy Fitzgerald

January 2003 Communications of the ACM. Volume 46 Issue 1

Publisher: ACM

Additional Information: [full citation](#),Full text available: [pdf\(148.94 KB\)](#) [html\(25.18 KB\)](#)
[abstract](#),  
[references](#), [cited](#)  
[by](#), [index terms](#)


The current swirl of diversity could signal a return to the days of ad hoc systems development, lack of formal methodology, and consequent increase in failure.

10 [Automatically summarising Web sites: is there a way around it?](#)

Einat Amitay, Cécile Paris

November 2000 CI KM '00: Proceedings of the ninth international conference on Information and knowledge management


Publisher: ACM

Full text available:  pdf(118.38 KB) Additional Information: full citation, references, cited by, index terms

Keywords: Web site summarisation, information retrieval from links

# 11 Extracting key semantic terms from Chinese speech query for web searches


Gang Wang, Tat-Seng Chua, Yong-Cheng Wang  
July 2003 ACL '03: Proceedings of the 41st Annual Meeting on Association for Computational Linguistics - Volume 1, Volume 1  
Publisher: Association for Computational Linguistics

Full text available:  pdf(201.60 KB) Additional Information: full citation, abstract, references, cited by

This paper discusses the challenges and proposes a solution to performing information retrieval on the Web using Chinese natural language speech query. The main contribution of this research is in devising a divide-and-conquer strategy to alleviate the ...

# 12 Complementarity and convergence of heuristic evaluation and usability test: a case study of universal brokerage platform

Lai-Chong Law, Ebba Thora Hvannberg  
October 2002 NordiCHI '02: Proceedings of the second Nordic conference on Human-computer interaction  
Publisher: ACM


Full text available:  pdf(419.24 KB) Additional Information: full citation, abstract, references, cited by, index terms

The aim of this paper is twofold (i) comparing the effectiveness of two evaluation methods, namely heuristic evaluation and usability testing, as applied to an experimental version of the UNIVERSAL Brokerage Platform (UBP), and (ii) inferring implications ...

Keywords: brokerage platform, heuristics evaluation, usability problem, usability test

# 13 Three theses of representation in the semantic web

Ian Horrocks, Peter F. Patel-Schneider  
May 2003 WWW '03: Proceedings of the 12th international conference on World Wide Web  
Publisher: ACM

Full text available:  pdf(223.29 KB) Additional Information: full citation, abstract, references, cited by, index terms

The Semantic Web is vitally dependent on a formal meaning for the constructs of its languages. For Semantic Web languages to work well together their formal meanings must employ a common view (or thesis) of representation, otherwise it will not be possible ...


Keywords: model-theoretic semantics, representation, semantic web

- 14 [The design of a solid-state physical model of an automated system to be used as a test bed for control applications](#)

Fernando G. Gonzalez, Alicia Helton, Douglas Helton, Jeffrey Smith, Eileen Thompson, Gerry Walterscheid

December 2000 WSC '00: Proceedings of the 32nd conference on Winter simulation

Publisher: Society for Computer Simulation International

Full text available:  [pdf\(593.36 KB\)](#) [Additional Information: full citation, abstract, references](#)

In order to develop, test, and validate control software for managing automated systems, laboratories have traditionally constructed experimental test beds using actual physical equipment (small scale). These experimental systems typically occupy a large ...


- 15 [On using the web as a collaboration space in the context of an industrial simulation](#)



Sylvie Ratté, Jocelyne Caron

September 2002 ACM SIGCSE Bulletin, Volume 34 Issue 3

Publisher: ACM

Full text available:  [pdf\(185.92 KB\)](#) [Additional Information: full citation, abstract, references, index terms](#)

We present a teaching method aimed at developing higher programming skills from description to production. The model is derived from problem-based learning approaches. It is supported by an "incremental" web site that gradually introduces theoretical ...


- 16 [An emerging model of Web site design for marketing](#)



Jonathan W. Palmer, David A. Griffith

March 1998 Communications of the ACM, Volume 41 Issue 3

Publisher: ACM


Full text available:  [pdf\(254.97 KB\)](#) [Additional Information: full citation, references, cited by, index terms](#)

- 17 [Witan web and the software engineering of web-based applications](#)

J. Howard Johnson, Stephen A. Mackay

November 2000 CASCON '00: Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available:  [pdf\(653.32 KB\)](#) [Additional Information: full citation, abstract, references, index terms](#)


WitanWeb is a web-based application that supports the interactions among program committee members, authors, and reviewers for the refereeing process of conferences. Since development began in 1997, it has evolved a great deal to support the requirements ...

Web-based simulation experiments

Enver Yücesan, Chun Hung Chen, Insup Lee

December 1998 WSC '98: Proceedings of the 30th conference on Winter simulation


Publisher: IEEE Computer Society Press

Full text available:  [pdf\(158.80 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)19 Statistical profiles of highly-rated web sites

Melody Y. Ivory, Marti A. Hearst

April 2002 CHI '02: Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves

Publisher: ACM

Full text available:  [pdf\(1.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We are creating an interactive tool to help non-professional web site builders create high quality designs. We have previously reported that quantitative measures of web page structure can predict whether a site will be highly or poorly rated by experts, ...


Keywords: World Wide Web, automated usability evaluation, empirical studies, web site design

20 On proxy agents, mobility, and web access

Anupam Joshi

December 2000 Mobile Networks and Applications, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(201.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

With the emerging need for ubiquitous access to information, web access from mobile clients is gaining increasing importance. Unfortunately, the underlying protocols of the web are not designed to support operations from a resource poor platform in a ...

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